

Thick film thermal printhead

KD3006-DC92A

KD3006-DC92A is developing type of GL40 series which are developed mainly of label printers.

We have adopted low coefficient of abrasion and conductive protection coat to GL40 series which are possible for high speed and good printing quality.

That is KD3006-DC92A which is 24V standard thick film thermal print head with high speed, high quality of printing, high durability, long life, and strong resistance to abration.

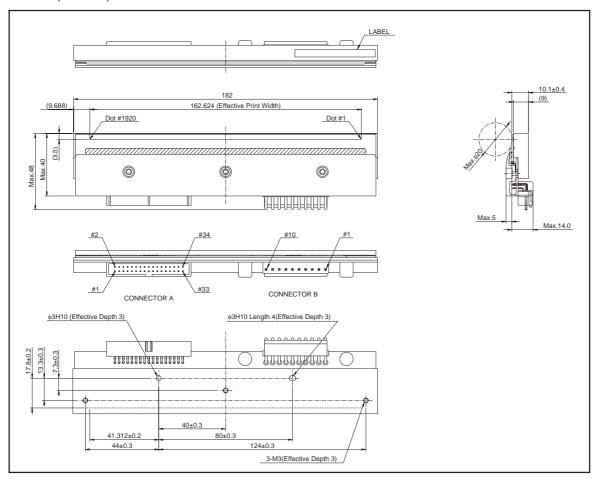
Applications

High speed label printer
High speed bar code printer
High speed ticket printer
Various high speed terminal printers

Features

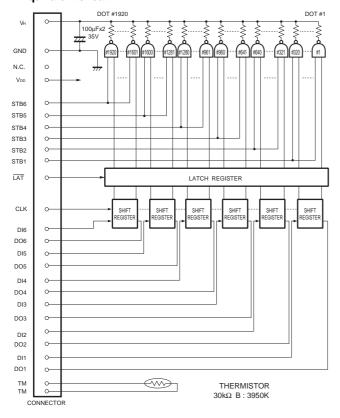
- 1) Newly developed thick-film fast response thermal element is employed for this series and 4 inches/s or 100 mm/s is possible without thermal history control. It is possible to print 10 inches/s or 250 mm/s if external thermal history control is used.
- 2) 150km life realized by attributing durable new protection film.
- 3) New partial glaze construction makes it compatible with the thermal transfer application.

●Dimensions (Unit:mm)



KD3006-DC92A Data Sheet

●Equivalent circuit



DI No.	DOT No.			
DI1	1 to 320			
DI2	321 to 640			
DI3	641 to 960			
DI4	961 to 1280			
DI5	1281 to 1600			
DI6	1601 to 1920			

STB No.	DOT No.			
STB1	1 to 320			
STB2	321 to 640			
STB3	641 to 960			
STB4	961 to 1280			
STB5	1281 to 1600			
STB6	1601 to 1920			

Fig.1

●Pin assignments

CONNECTOR A

No.	Circuit	No.	Circuit				
1	GND	18	STB6				
2	V _{DD}	19 CLK					
3	GND	20	/ LAT				
4	V _{DD}	21	TM				
5	NC	22	TM				
6	NC	23	3 STB3				
7	NC	24	STB4				
8	NC	25	STB1				
9	NC	26	STB2				
10	NC	27	DI4				
11	DI6	28	DO4				
12	DO6	29	DI3				
13	DI5	30	DO3				
14	DO5	31	DI2				
15	NC	32	DO2				
16	NC	33	3 DI1				
17	STB5	34 DO1					
			-				

CONNECTOR B

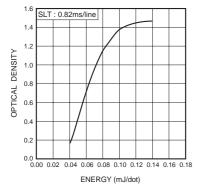
No.	Circuit			
1	Vн			
2	Vн			
3	Vн			
4	Vн			
5	Vн			
6	GND			
7	GND			
8	GND			
9	GND			
10	GND			

KD3006-DC92A Data Sheet

Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	_	162.624	mm
Dot pitch	_	0.0847	mm
Total dot number	_	1920	dots
Average resistance value	Rave	1000	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.50	W/dot
Print cycle	SLT	0.83	ms
Maximum number of dots energized simultaneously	_	960	dots
Maximum clock frequency	_	12	MHz
Maximum roller diameter	_	ф20.0	mm
Running life / pulse life	_	150/(1×10 ⁸)	km/pulses
Operating temperature	_	5 to 45	°C

●Data sheets



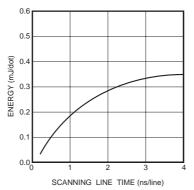


Fig.2 Representative density curve

Fig.3 Maximum energy curve

Notes

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